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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date: 22-12-2022

TEST REPORT ON PHYSICAL PROPERTIES OF CEMENT

Client:

Name of Work: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Contractor: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor Address: Sri. Chidananda Murthy R.

PMC: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

Date of sample collection: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : 21-11-2022

Sample Identification*: Sample collected from the site and Tested

Reference to BIS codes: Birla OPC 43 grade

Specification :

IS 269 : 2015 (RA 2020) Ordinary Portland Cement

Test Method:

IS 4031(Part 1):1996(RA 2021) Determination Of Fineness By Dry Sieving

IS 4031 (Part 2):1999 (RA 2018) Determination Of Fineness By Blaine Air Permeability Method

IS 4031(Part 3):1988 (RA 2019) Determination Of Soundness

IS 4031 (Part 4):1988 (RA 2019) Determination Of Consistency Of Standard Cement Paste

IS 4031 (Part 5):1988 (RA 2019) Determination Of Initial & Final Setting Time

IS 4031 (Part 6):1988 (RA 2019) Determination Of Compressive Strength

IS 4031 (Part 11):1988 (RA 2019) Determination Of Density

Date of test: 22-11-2022 to 20-12-2022

Sl.No	Physical properties	Results	Units	Requirement as per IS 269: 2015		
				33 Grade	43 Grade	53 Grade
A	Standard Consistency	30.5	%	Not specified	Not specified	Not specified
B	Initial Setting time	128	Minutes	Min 30 minutes	Not specified	Min 30 minutes
C	Final Setting time	345	Minutes	Max 600 minutes	Max 600 minutes	Max 600 minutes
D	Fineness by dry sieving	5.2	%	–	–	–
E	Soundness (Le Chatelier's Method)	3.2	mm	Max 10 mm	Max 10 mm	Max 10 mm
F	Density	3.16	g/cm^3	–	–	–

Sl.No	Physical properties	Results	Units	Requirement as per IS 269: 2015		
				33 Grade	43 Grade	53 Grade
G	Compressive Strength					
	3 Days	24.8	N/mm^2	Min 16 N/mm^2	Min 23 N/mm^2	Min 27 N/mm^2
	7 Days	34.6	N/mm^2	Min 22 N/mm^2	Min 33 N/mm^2	Min 37 N/mm^2
	28 Days	44.4	N/mm^2	Min 33 N/mm^2, Max 48 N/mm^2	Min 43 N/mm^2, Max 58 N/mm^2	Min 53 N/mm^2

Remarks: The tested samples meets the requirements of IS 269 : 2015 (RA 2020) (sixth revision) with respect to above tests conducted.

Note:

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2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 30 days from the date of issue of test certificate.

Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager

Transheight Consultants Pvt. Ltd. Bangalore

ASSISTANT EXECUTIVE ENGINEER Vidyaranyapura Sub-Division Bengaluru Mahanagara

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Date: 19-12-2022

TEST REPORT ON PHYSICAL PROPERTIES OF FINE AGGREGATE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Date of sample collection: 21-11-2022
Sampling : Sample Received from the site and Tested
Sample Identification* M-Sand
Reference to BIS codes: **Specification:**
IS 383 : 2016 Coarse and fine aggregate for concrete
Test Method:
IS 2386 (Part 1) : 1963 (RA 2021) Particle Size And Shape Cl.2
IS 2386 (Part 2) : 1963 (RA 2021) Estimation of deleterious materials and organic impurities
IS 2386 (Part 3) : 1963 (RA 2021) Specific gravity, density, voids, absorption and bulking
Test Period: 01-12-2022 to 03-12-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF FINE AGGREGATE:

Total weight taken: 1000 grams

SL.No	Sieve Designation	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383 : 2016 Table-9, (Cl-6.3)				Remarks
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV	
1	10 mm	0	0	0	100	100	100	100	100	The tested Sample confirms to Grading Zone- II
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100	
3	2.36 mm	158	187	18.7	81.3	60-95	75-100	85-100	95-100	
4	1.18 mm	186	373	37.3	62.7	30-70	55-90	75-100	90-100	
5	600 micron	192	565	56.5	43.5	15-34	35-59	60-79	80-100	
6	300 micron	197	762	76.2	23.8	5-20	8-30	12-40	15-50	
7	150 micron	155	917	91.7	8.3	0-10	0-10	0-10	0-15	
8	Pan	83	1000	100	0	---	---	---	---	

PHYSICAL PROPERTIES

Sl.No	Tests	Result	Requirements as per IS 383 : 2016 Table-3, (Cl-5.7)
1	Specific Gravity	2.42	2.1 to 3.2
2	Material Finer than 75μ (%)	8.8	–
3	Fineness Modulus	2.4	–
4	Water Absorption (%)	1.96	5% Max

Remarks: The tested sample is found to be satisfactory as it meets the requirements of IS 383 : 2016 Specification.

Note:
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2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 30 days from the date of issue of test certificate.

Prepared By: Pavithra
Tested By: Rachithanand
Technical Manager:

Transheight Consultants Pvt. Ltd. Bangalore

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098869 13195

Date: 2/12/2022

TEST REPORT ON MECHANICAL PROPERTIES OF COARSE AGGREGATES

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Date of sample collection: 21-11-2022

Sampling : Sample Received from the site and Tested

Sample Identification: 20mm down size Coarse Aggregate

Reference to BIS codes: **Specification:**

IS 383 : 2016 Coarse And Fine Aggregate For Concrete

Test Method:

IS 2386 (Part 1) : 1963 (RA 2021) Particle Size And Shape Cl.2

IS 2386 (Part 3) : 1963 (RA 2021) Specific gravity, density, voids, absorption and bulking

IS 2386 (Part 4) : 1963 (RA 2021) Mechanical Properties

Test Period: 30-11-2022 to 02-12-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sl.No	Sieve Designation	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Requirement as per IS 383: 2016 Table-7 (Cl 6.1 & 6.2)	
						Graded	Single-Sized
1	40 mm	0	0	0	100	100	100
2	20 mm	412	412	8.24	91.76	90-100	85-100
3	10 mm	3014	3426	68.52	31.48	25-55	0-20
4	4.75 mm	1249	4675	93.5	6.5	0-10	0-5
5	Pan	325	5000	100	0	---	---

MECHANICAL PROPERTIES

Sl.No	Tests	Result	Requirements as per IS 383 : 2016
1	Flakiness Index (%)	16.10	Combined flakiness & elongation index shall not exceed 40 % for uncrushed or crushed aggregate
2	Elongation Index (%)	14.70	
3	Specific Gravity	2.64	_
4	Water Absorption (%)	0.20	_
5	Aggregate crushing strength (%)	21.30	For Aggregates to be used in concrete for wearing surfaces, (such as runways, roads, pavements, tunnel lining carrying water, spillways and stilling basins): Max 30 %
6	Aggregate Impact Value (%)	23.50	For Aggregates to be used in concrete for wearing surfaces, (such as runways, roads, pavements, tunnel lining carrying water, spillways and stilling basins): Max 30 % For Aggregates to be used in concrete other than for wearing surfaces: Max 45 %

Remarks:-The tested sample is found to be satisfactory as it meets the requirements of the IS 383 : 2016 Specification with respect to above tests conducted, where as the gradation conforms to Graded aggregate.

Note:

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2. Any correction in the report will make this report invalidate
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 30 days from the date of issue of test certificate.

Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

Transheight Consultants Pvt. Ltd. Bangalore

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098869 13195

Date: 2/12/2022

TEST REPORT ON MECHANICAL PROPERTIES OF REINFORCEMENT STEEL

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample brought from site and tested

Reference to BIS codes: **Specification:**

IS 1786 : 2008 (RA 2018) High strength deformed steel bars and wires for concrete reinforcement

Test Method:

IS 1608 (Part 1) : 2022, Metallic Materials, Tensile Testing, Method of Test at Room Temperature

IS 1786 : 2008 (RA 2018) High strength deformed steel bars and wires for concrete reinforcement - Bend & Rebend Test

Test Period: 21-11-2022

Sl. No	Sample Identification	Nominal size (dia in mm)	Mass per meter (kg/meter)	0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation percent on gauge length	Bend Test	Rebend Test
1	Indus TMT 550	8	0.398	568	628	1.11	14.0	–	–
	Indus TMT 550	8	0.396	–	–	–	–	No Rupture or Crack Visible	No Rupture or Crack Visible
	Indus TMT 550	8	0.402	–	–	–	–	–	–
2	Indus TMT 550	10	0.619	582	636	1.09	13.0	–	–
	Indus TMT 550	10	0.621	–	–	–	–	No Rupture or Crack Visible	No Rupture or Crack Visible
	Indus TMT 550	10	0.620	–	–	–	–	–	–
3	Indus TMT 550	12	0.890	596	678	1.14	16.0	–	–
	Indus TMT 550	12	0.891	–	–	–	–	No Rupture or Crack Visible	No Rupture or Crack Visible
	Indus TMT 550	12	0.889	–	–	–	–	–	–

Remarks: The tested samples meets the requirements of IS 1786 : 2008 (RA 2018) with respect to above tests conducted.

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Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

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END OF REPORT

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REQUIREMENTS AS PER IS: 1786 - 2008 (RA 2018) Table 1, Cl 6.2

NOMINAL MASS AND TOLERANCES OF BARS

SL.No	Nominal size (dia) (mm)	Mass per metre (kg/metre)	Tolerance on the nominal mass	
			Batch	Individual sample
1	4	0.099	± 7%	- 8%
2	5	0.154	± 7%	- 8%
3	6	0.222	± 7%	- 8%
4	8	0.395	± 7%	- 8%
5	10	0.617	± 7%	- 8%
6	12	0.888	± 5%	- 6%
7	16	1.58	± 5%	- 6%
8	20	2.47	± 3%	- 4%
9	25	3.85	± 3%	- 4%
10	32	6.31	± 3%	- 4%
11	36	7.99	± 3%	- 4%
12	40	9.86	± 3%	- 4%
13	45	12.49	± 3%	- 4%
14	50	15.42	± 3%	- 4%

REQUIREMENTS AS PER IS: 1786 - 2008 (RA 2018) Table 3, Cl 8.1

MECHANICAL PROPERTIES OF HIGH STRENGTH DEFORMED BARS AND WIRES

High strength deformed bars - grade	0.20 % proof stress/ yield stress, Minimum (N/mm2)		TS/YS ratio, N/mm^2 TS:Tensile Strength YS:0.20 % proof stress/ yield stress	Elongation percent , Minimum, on gauge length
	Min	Max		
Fe TMT 415	415		≥1.10, but TS not less than 485.0 N/mm^2	14.5
Fe TMT 415D	415		≥1.12, but TS not less than 500.0 N/mm^2	18
Fe TMT 415S	415	540	≥1.25	18
Fe TMT 500	500		≥1.08, but TS not less than 545.0 N/mm^2	12
Fe TMT 500D	500		≥1.10, but TS not less than 565.0 N/mm^2	16
Fe TMT 500S	500	650	≥1.25	16
Fe TMT 550	550		≥1.06, but TS not less than 585.0 N/mm^2	10
Fe TMT 550 D	550		≥1.08, but TS not less than 600.0 N/mm^2	14.5
Fe TMT 600	600		≥1.06, but TS not less than 660.0 N/mm^2	10
Fe TMT 650	650		≥1.06, but TS not less than 700.0 N/mm^2	10
Fe TMT 700	700		≥1.06, but TS not less than 770.0 N/mm^2	10

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Name of work : Package no 4 (Consists of 3 works), Vidyaranyapura Sub Division BBMP, Bangalore

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5) | **Date: 14-1-2023**

Lab I'd	TC-7698/TCPL
Test Report No	TCPL/RPT/37/2022-23
Client	Assistant Executive Engineer,Vidyaranayanpura Sub Division,BBMP,Bangalore.
Consultant	Transheight Consultants Private Limited
Contractor	Sri Chidananda Murthy R.
Customer Reference	BBMP/EE/P-YZ/AGR//2022-23
Source of Sample	RMC
Sample Condition	Satisfactory
Date of Reciept	15-12-2022
Sample Drawn From	Narayanapura school
Sample Grade/ Age	M20/ 28 Days
Date of Test	12-01-2023

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specimen	Cross sectional area	Weight of the sample	Compressive Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Wall Concrete	M20	15-12-2022	12-01-2023	150x150x150	22500	7.590	496	22.0	21.08
2	Drain Wall Concrete	M20	15-12-2022	12-01-2023	150x150x150	22500	7.750	450	20.0	
3	Drain Wall Concrete	M20	15-12-2022	12-01-2023	150x150x150	22500	8.170	477	21.2	

Remarks: Compressive testing report for 28 days gives good characteristic strength which has to be more than 20 N/mm2. Cubes passed compressive testing.

Prepared By
Pavithra

Tested By
Rachitanand

Technical Manager

Transheight Consultants Pvt. Ltd. Bangalore

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TRANSHEIGHT CONSULTANTS PVT LTD
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Name of work : Package no 4 (Consists of 3 works), Vidyaranyapura Sub Division BBMP, Bangalore

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C-1.5) | **Date: 26-12-2022**

Lab I'd	TC-7698/TCPL
Test Report No	TCPL/RPT/37/2022-23
Client	Assistant Executive Engineer,Vidyaranayanpura Sub Division,BBMP,Bangalore.
Consultant	Transheight Consultants Private Limited
Contractor	Sri Chidananda Murthy R.
Customer Reference	BBMP/EE/P-YZ/AGR//2022-23
Source of Sample	RMC
Sample Condition	Satisfactory
Date of Reciept	15-12-2022
Sample Drawn From	Narayanapura school
Sample Grade/ Age	M20/ 7 Days
Date of Test	22-12-2022

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specimen	Cross sectional area	Weight of the sample	Compressive Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Wall Concrete	M20	15-12-2022	22-12-2022	150x150x150	22500	8.510	334	14.8	14.61
2	Drain Wall Concrete	M20	15-12-2022	22-12-2022	150x150x150	22500	8.270	356	15.8	
3	Drain Wall Concrete	M20	15-12-2022	22-12-2022	150x150x150	22500	8.050	296	13.2	

Remarks: Compressive testing report for 07 days gives good characteristic strength which has to be more than 13 N/mm2. Cubes passed compressive testing.

Prepared By
Pavithra

Tested By
Rachitanand

Transheight Consultants Pvt. Ltd. Bangalore
Technical Manager

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Name of work : Package no 4 (Consists of 3 works), Vidyaranyapura Sub Division BBMP, Bangalore

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C-1.5) | **Date: 10-12-2022**

Lab I'd	TC-7698/TCPL
Test Report No	TCPL/RPT/37/2022-23
Client	Assistant Executive Engineer,Vidyaranayanpura Sub Division,BBMP,Bangalore.
Consultant	Transheight Consultants Private Limited
Contractor	Sri Chidananda Murthy R.
Customer Reference	BBMP/EE/P-YZ/AGR//2022-23
Source of Sample	RMC
Sample Condition	Satisfactory
Date of Reciept	30-11-2022
Sample Drawn From	Venketeshwara temple road
Sample Grade/ Age	M20/ 7 Days
Date of Test	7-12-2022

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specimen	Cross sectional area	Weight of the sample	Compressive Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Culvert Raft Concrete	M20	30-11-2022	7-12-2022	150x150x150	22500	8.510	333	14.8	14.83
2	Culvert Raft Concrete	M20	30-11-2022	7-12-2022	150x150x150	22500	8.270	356	15.8	
3	Culvert Raft Concrete	M20	30-11-2022	7-12-2022	150x150x150	22500	8.050	312	13.9	

Remarks: Compressive testing report for 07 days gives good characteristic strength which has to be more than 13 N/mm2. Cubes passed compressive testing.

Ref: ATR-09

Prepared By
Pavithra

Tested By
Rachitanand

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Technical Manager

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Name of work : Package no 4 (Consists of 3 works), Vidyaranyapura Sub Division BBMP, Bangalore

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 30-12-2022
Lab I'd	TC-7698/TCPL
Test Report No	TCPL/RPT/37/2022-23
Client	Assistant Executive Engineer,Vidyaranayanpura Sub Division,BBMP,Bangalore.
Consultant	Transheight Consultants Private Limited
Contractor	Sri Chidananda Murthy R.
Customer Reference	BBMP/EE/P-YZ/AGR//2022-23
Source of Sample	RMC
Sample Condition	Satisfactory
Date of Reciept	30-11-2022
Sample Drawn From	Venketeshwara temple road
Sample Grade/ Age	M20/ 28 Days
Date of Test	28-12-2022

Sl no.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specimen	Cross sectional area	Weight of the sample	Compressive Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Culvert Raft Concrete	M20	30-11-2022	28-12-2022	150x150x150	22500	7.590	460	20.5	20.87
2	Culvert Raft Concrete	M20	30-11-2022	28-12-2022	150x150x150	22500	7.750	472	21.0	
3	Culvert Raft Concrete	M20	30-11-2022	28-12-2022	150x150x150	22500	8.170	477	21.2	

Remarks: Compressive testing report for 28 days gives good characteristic strength which has to be more than 20 N/mm2. Cubes passed compressive testing.

AR-09

Prepared By
Pavithra

Tested By
Rachitanand
Technical Manager

Transheight Consultants Pvt. Ltd. Bangalore

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Bruhath Bengaluru Mahanagara Palike

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Sahakarnagar, Bangalore-560092
098869 13195

Name of work : Package no 4 (Consists of 3 works), Vidyaranyapura Sub Division BBMP, Bangalore

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C-1.5)	Date: 10-02-2023

Lab I'd	TC-7698/TCPL
Test Report No	TCPL/RPT/37/2022-23
Client	Assistant Executive Engineer,Vidyaranayanpura Sub Division,BBMP,Bangalore.
Consultant	Transheight Consultants Private Limited
Contractor	Sri Chidananda Murthy R.
Customer Reference	BBMP/EE/P-YZ/AGR//2022-23
Source of Sample	RMC
Sample Condition	Satisfactory
Date of Reciept	10-1-2023
Sample Drawn From	6th block BEL layout
Sample Grade/ Age	M20/ 7 Days
Date of Test	17-1-2023

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specimen	Cross sectional area	Weight of the sample	Compressive Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Culvert Raft	M20	10-1-2023	17-1-2023	150x150x150	22500	8.510	315	14.0	14.12
2	Culvert Raft	M20	10-1-2023	17-1-2023	150x150x150	22500	8.270	326	14.5	
3	Culvert Raft	M20	10-1-2023	17-1-2023	150x150x150	22500	8.050	312	13.9	

Remarks: Compressive testing report for 07 days gives good characteristic strength which has to be more than 13 N/mm2. Cubes passed compressive testing.

12/1/23

Prepared By
Pavithra

Tested By
Rachitanand

Technical Manager

Transheight Consultants Pvt. Ltd. Bangalore

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#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Name of work : Package no 4 (Consists of 3 works), Vidyaranyapura Sub Division BBMP, Bangalore

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C-1.5)	Date: 10-02-2023

Lab I'd	TC-7698/TCPL
Test Report No	TCPL/RPT/37/2022-23
Client	Assistant Executive Engineer,Vidyaranayanpura Sub Division,BBMP,Bangalore.
Consultant	Transheight Consultants Private Limited
Contractor	Sri Chidananda Murthy R.
Customer Reference	BBMP/EE/P-YZ/AGR//2022-23
Source of Sample	RMC
Sample Condition	Satisfactory
Date of Reciept	10-1-2023
Sample Drawn From	6th block BEL layout
Sample Grade/ Age	M20/ 7 Days
Date of Test	17-1-2023

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specimen	Cross sectional area	Weight of the sample	Compressive Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Culvert Raft	M20	10-1-2023	17-1-2023	150x150x150	22500	8.510	315	14.0	14.12
2	Culvert Raft	M20	10-1-2023	17-1-2023	150x150x150	22500	8.270	326	14.5	
3	Culvert Raft	M20	10-1-2023	17-1-2023	150x150x150	22500	8.050	312	13.9	

Remarks: Compressive testing report for 07 days gives good characteristic strength which has to be more than 13 N/mm2. Cubes passed compressive testing.

23-01-09

Prepared By
Pavithra

Tested By
Rachitanand

Transheight Consultants Pvt. Ltd. Bangalore

Technical Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Name of work : Package no 4 (Consists of 3 works), Vidyaranyapura Sub Division BBMP, Bangalore

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C-1.5) | **Date: 10-02-2023**

Lab I'd	TC-7698/TCPL
Test Report No	TCPL/RPT/37/2022-23
Client	Assistant Executive Engineer,Vidyaranayanpura Sub Division,BBMP,Bangalore.
Consultant	Transheight Consultants Private Limited
Contractor	Sri Chidananda Murthy R.
Customer Reference	BBMP/EE/P-YZ/AGR//2022-23
Source of Sample	RMC
Sample Condition	Satisfactory
Date of Reciept	10-1-2023
Sample Drawn From	6th block BEL layout
Sample Grade/ Age	M20/ 28Days
Date of Test	7-2-2023

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specimen	Cross sectional area	Weight of the sample	Compressive Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Culvert Raft	M20	10-1-2023	7-2-2023	150x150x150	22500	8.510	486	21.6	21.45
2	Culvert Raft	M20	10-1-2023	7-2-2023	150x150x150	22500	8.270	477	21.2	
3	Culvert Raft	M20	10-1-2023	7-2-2023	150x150x150	22500	8.050	485	21.6	

Remarks: Compressive testing report for 07 days gives good characteristic strength which has to be more than 13 N/mm2. Cubes passed compressive testing.

AB-09

Prepared By
Pavithra

Tested By
Rachitanand

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Transheight Consultants Pvt Ltd Bangalore

Technical Manager

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Sahakarnagar, Bangalore-560092
098869 13195

Date 2/12/2022

TEST REPORTS FOR CEMENT CONCRETE KERBS SAMPLES

Client:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP Bangalore-560092
Name of Work:	PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranyapura Sub Divison
Contractor:	Sri. Chidananda Murthy R.
Contractor Addr	No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC:	Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Location /Land Mark:	BEL AND NTI layout
Test Date:	2-12-2022
Work order No:	EE/P-YZ/AGR/ /2022-23

Compressive Strength Test as per the Guidelines of IS :516 -1959 Has been conducted on Concrete Samples

SL.NO	Cores Pertaining to the concrete cast	Diameter in mm	Length in mm	H/D RATIO	Area Sqm	Load Kn	Comp.Strength N/Sq.mm	C.C.F N/Sqmm	E.C.S.C N/Sqmm	AVG .N/Sq.mm	Weight of core in kg	Volume of core ,m3	Density,Kg/m3
1	S-01	95.0	190.0	2.0	7085	134.2	18.98	18.98	23.2		2.65	0.00135	1993.94
2	S-02	95.0	190.0	2.0	7085	136.8	19.40	19.40	24	**23.50**	2.75	0.00135	2010.74
3	S-03	95.0	190.0	2.0	7085	133.4	18.04	18.04	23.2		2.54	0.00135	1950.12

AB-14

Prepared By:
Pavithra

Tested By:
Rachithanand

Technical Manager:

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Sahakarnagar, Bangalore-560092
098869 13195

Date 6/1/2023

TEST REPORTS FOR CEMENT CONCRETE KERBS SAMPLES

Client:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP Bangalore-560092
Name of Work:	PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison
Contractor:	Sri. Chidananda Murthy R.
Contractor Addr	No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC:	Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Location /Land Mark:	Durgaparmeshwari road
Test Date:	6-01-2023
Work order No:	EE/P-YZ/AGR/ /2022-23

Compressive Strength Test as per the Guidelines of IS :516 -1959 Has been conducted on Concrete Samples

SL.NO	Cores Pertaining to the concrete cast	Diameter in mm	Length in mm	H/D RATIO	Area Sqm	Load Kn	Comp.Strength N/Sq.mm	C.C.F N/Sqmm	E.C.S.C N/Sqmm	AVG .N/Sq.mm	Weight of core in kg	Volume of core ,m3	Density,Kg/m3
1	S-01	95.0	190.0	2.0	7085	134.2	18.98	18.98	23.1		2.65	0.00135	1990.94
2	S-02	95.0	190.0	2.0	7085	136.8	19.40	19.40	24	**23.22**	2.75	0.00135	2019.74
3	S-03	95.0	190.0	2.0	7085	133.4	18.04	18.04	23.7		2.54	0.00135	1990.12

Prepared By:
Pavithra

Tested By:
Rachithanand

Technical Manager:

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Sahakarnagar, Bangalore-560092
098869 13195

Date 5/2/2023

TEST REPORTS FOR CEMENT CONCRETE KERBS SAMPLES

Client:	Assistant Executive Engineer,Vidyaranyapura Sub Division, BBMP Bangalore-560092
Name of Work:	PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranyapurai Sub Divison
Contractor:	Sri. Chidananda Murthy R.
Contractor Addr	No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC:	Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Location /Land Mark:	IECHS and HMT layout
Test Date:	5-02-2023
Work order No:	EE/P-YZ/AGR/ /2022-23

Compressive Strength Test as per the Guidelines of IS :516 -1959 Has been conducted on Concrete Samples

SL.NO	Cores Pertaining to the concrete cast	Diameter in mm	Length in mm	H/D RATIO	Area Sqm	Load Kn	Comp.Strength N/Sq.mm	C.C.F N/Sqmm	E.C.S.C N/Sqmm	AVG .N/Sq.mm	Weight of core in kg	Volume of core ,m3	Density,Kg/m3
1	S-01	95.0	190.0	2.0	7085	134.2	18.98	18.98	23.2		2.65	0.00135	1990.94
2	S-02	95.0	190.0	2.0	7085	136.8	19.40	19.40	24.9	**23.34**	2.75	0.00135	2019.74
3	S-03	95.0	190.0	2.0	7085	133.4	18.04	18.04	23.5		2.54	0.00135	1990.12

Prepared By:
Pavithra

Tested By:
Rachithanand

Technical Manager:

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
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098869 13195

Date: 24-12-2022

TEST REPORTS FOR CEMENT CONCRETE SLAB SAMPLES

ient:	Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP, Bangalore-560092
Name of Work:	PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor:	Sri. Chidananda Murthy R.
ntractor Address:	No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
MC:	Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Locat /Land Mark:	8th main road naryana school
st Date:	24-12-2022
Work order No:	EE/P-YZ/AGR/ /2022-23

S.NO	Identification Mark	Diameter of core (mm)	Hieght of the core (mm)	Weight of the core (kg)	Area (Sq.mm)	Faliure Load (KN)	Core Compressive strength (N/mm^2)	Corrected Cylindrical C (N/mm^2)	compressive strength (N/mm^2)	Equivalent Cube
1	Cover Slab -1	77.48	100.23	1.125	4714	80.2	17.5	15.8	15.66	19.45
2	Cover Slab -2	77.42	100.74	1.895	4730	81.7	17.12	16.4	15.4	20.55
3	Cover Slab -3	77.51	100.45	1.474	4789	78.63	16.85	15.7	15.7	19.84

Remarks:

SLB - AB-14

Prepared By:
Pavithra

Tested By:
Rachithanand

Technical Manager:

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Sahakarnagar, Bangalore-560092
098869 13195

Date: 5-01-2023

TEST REPORTS FOR CEMENT CONCRETE SLAB SAMPLES

Client:	Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP, Bangalore-560092
Name of Work:	PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor:	Sri. Chidananda Murthy R.
Contractor Address:	No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC:	Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Locat /Land Mark:	IECHS and HMT layout
Test Date:	5-01-2023
Work order No:	EE/P-YZ/AGR/ /2022-23

S.NO	Identification Mark	Diameter of core (mm)	Hieght of the core (mm)	Weight of the core (kg)	Area (Sq.mm)	Faliure Load (KN)	Core Compressive strength (N/mm^2)	Corrected Cylindrical C (N/mm^2)	compressive strength (N/mm^2)	Equivalent Cube
1	Cover Slab -1	77.48	100.23	1.125	4714	80.2	17.5	15.8	15.66	19.45
2	Cover Slab -2	77.42	100.74	1.895	4730	81.7	17.12	16.4	15.4	20.55
3	Cover Slab -3	77.51	100.45	1.474	4789	78.63	16.85	15.7	15.7	19.84

Remarks:

Prepared By:
Pavithra

Tested By:
Rachithanand

Technical Manager:

Assistant Executive Engineer
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TRANSHEIGHT CONSULTANTS PVT LTD
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Sahakarnagar, Bangalore-560092
098869 13195

TRANSHEIGHT
PAVING FUTURE

Date: 18-01-2023

TEST REPORT OF GRADATION FOR WET MIX MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample collected from the site and tested

Chainage/Location/ Land Mark: Venketeshwara temple road,IECHS Layout

Test Date: 18-01-2023

BIS Code reference: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2

Layer: WMM

Wt of Sample (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits Vide Table 400.13 as Per MORTH Specification
1	53	0	0	0.00	100	**100**
2	45	286	286	2.86	97.14	**95-100**
3	22.4	2709	2995	29.95	70.05	**60-80**
4	11.2	1444	4439	44.39	55.61	**40-60**
5	4.75	2152	6591	65.91	34.09	**25-40**
6	2.36	946	7537	75.37	24.63	**15-30**
7	0.600	916	8453	84.53	15.47	**8-22**
8	0.075	1422	9875	98.75	1.25	**0-5**
9	pan	125	10000	100.00	0.00	-

Remarks:

Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

Transheight Consultants Pvt Ltd Bangalore

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
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Sahakarnagar, Bangalore-560092
098869 13195

Date: 30-01-2023

TEST REPORT OF GRADATION FOR WET MIX MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample collected from the site and tested

Chainage/Location/ Land Mark: 7th main road,IECHS Layout

Test Date: 30-01-2023

BIS Code reference: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2

Layer: WMM

Wt of Sample (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits Vide Table 400.13 as Per MORTH Specification
1	53	0	0	0.00	100	**100**
2	45	205	205	2.05	97.95	**95-100**
3	22.4	2604	2809	28.09	71.91	**60-80**
4	11.2	1767	4576	45.76	54.24	**40-60**
5	4.75	2139	6715	67.15	32.85	**25-40**
6	2.36	895	7610	76.10	23.90	**15-30**
7	0.600	749	8359	83.59	16.41	**8-22**
8	0.075	1514	9873	98.73	1.27	**0-5**
9	pan	127	10000	100.00	0.00	-

Remarks:

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division,
Bruhath Bengaluru Mahanagara Palike

Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date: 30-01-2023

TEST REPORT OF GRADATION FOR WET MIX MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample collected from the site and tested

Chainage/Location/ Land Mark: 5th Cross , Defence Layout

Test Date: 30-01-2023

BIS Code reference: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2

Layer: WMM

Wt of Sample (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits Vide Table 400.13 as Per MORTH Specification
1	53	0	0	0.00	100	**100**
2	45	360	360	3.60	96.40	**95-100**
3	22.4	2341	2701	27.01	72.99	**60-80**
4	11.2	1703	4404	44.04	55.96	**40-60**
5	4.75	2152	6556	65.56	34.44	**25-40**
6	2.36	913	7469	74.69	25.31	**15-30**
7	0.600	797	8266	82.66	17.34	**8-22**
8	0.075	1554	9820	98.20	1.80	**0-5**
9	pan	180	10000	100.00	0.00	-

Remarks:

Prepared By: Pavithra

Tested By: Rachithanand

ASSISTANT EXECUTIVE ENGINEER Vidyaranyapura Sub-Division Bruhat Bengaluru Mahanagara Palike

Technical Manager:

TRANSHEIGHT
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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date: 12-02-2023

TEST REPORT OF GRADATION FOR WET MIX MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample collected from the site and tested

Chainage/Location/ Land Mark: 8th main road,(narayana school to Vidyanaranyapura main road)

Test Date: 12-02-2023

BIS Code reference: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2

Layer: WMM

Wt of Sample (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits Vide Table 400.13 as Per MORTH Specification
1	53	0	0	0.00	100	**100**
2	45	235	235	2.35	97.65	**95-100**
3	22.4	3200	3435	34.35	65.65	**60-80**
4	11.2	1611	5046	50.46	49.54	**40-60**
5	4.75	2147	7193	71.93	28.07	**25-40**
6	2.36	910	8103	81.03	18.97	**15-30**
7	0.600	866	8969	89.69	10.31	**8-22**
8	0.075	847	9816	98.16	1.84	**0-5**
9	pan	184	10000	100.00	0.00	-

Remarks:

AIE-09

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
South Bengaluru Mahanagara Palike

Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date: 10-02-2023

TEST REPORT OF GRADATION FOR WET MIX MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample collected from the site and tested

Chainage/Location/ Land Mark: 9TH Main road,NTI layout

Test Date: 10-02-2023

BIS Code reference: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2

Layer: WMM

Wt of Sample (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits Vide Table 400.13 as Per MORTH Specification
1	53	0	0	0.00	100	100
2	45	252	252	2.52	97.48	95-100
3	22.4	3023	3275	32.75	67.25	60-80
4	11.2	1777	5052	50.52	49.48	40-60
5	4.75	2100	7152	71.52	28.48	25-40
6	2.36	965	8117	81.17	18.83	15-30
7	0.600	984	9101	91.01	8.99	8-22
8	0.075	736	9837	98.37	1.63	0-5
9	pan	163	10000	100.00	0.00	-

Remarks:

AK-09

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bangaluru Mahanagara Palike

Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date: 20-02-2023

TEST REPORT OF GRADATION FOR WET MIX MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample collected from the site and tested

Chainage/Location/ Land Mark: Sommana Garden Layout

Test Date: 20-02-2023

BIS Code reference: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2

Layer: WMM

Wt of Sample (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits Vide Table 400.13 as Per MORTH Specification
1	53	0	0	0.00	100	**100**
2	45	385	385	3.85	96.15	**95-100**
3	22.4	2546	2931	29.31	70.69	**60-80**
4	11.2	2282	5213	52.13	47.87	**40-60**
5	4.75	2160	7373	73.73	26.27	**25-40**
6	2.36	906	8279	82.79	17.21	**15-30**
7	0.600	909	9188	91.88	8.12	**8-22**
8	0.075	671	9859	98.59	1.41	**0-5**
9	pan	141	10000	100.00	0.00	-

Remarks:

ATR-04

Prepared By: Pavithra

Tested By: Rachithanand

ASSISTANT EXECUTIVE ENGINEER
Vidyaranayapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Technical Manager:

TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date: 25-2-2023

TEST REPORT OF GRADATION FOR WET MIX MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample collected from the site and tested

Chainage/Location/ Land Mark: 1st cross and 3rd cross Somana garden layout

Test Date: 25-2-2023

BIS Code reference: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2

Layer: WMM

Wt of Sample (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits Vide Table 400.13 as Per MORTH Specification
1	53	0	0	0.00	100	**100**
2	45	328	328	3.28	96.72	**95-100**
3	22.4	3186	3514	35.14	64.86	**60-80**
4	11.2	1951	5465	54.65	45.35	**40-60**
5	4.75	1565	7030	70.30	29.70	**25-40**
6	2.36	1028	8058	80.58	19.42	**15-30**
7	0.600	700	8758	87.58	12.42	**8-22**
8	0.075	1070	9828	98.28	1.72	**0-5**
9	pan	172	10000	100.00	0.00	-

Remarks:

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date: 10-03-2023

TEST REPORT OF GRADATION FOR WET MIX MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample collected from the site and tested

Chainage/Location/ Land Mark: Durgaparmeshwari temple road to Bus stand

Test Date: 10-03-2023

BIS Code reference: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2

Layer: WMM

Wt of Sample (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits Vide Table 400.13 as Per MORTH Specification
1	53	0	0	0.00	100	**100**
2	45	239	239	2.39	97.61	**95-100**
3	22.4	2693	2932	29.32	70.68	**60-80**
4	11.2	1742	4674	46.74	53.26	**40-60**
5	4.75	2174	6848	68.48	31.52	**25-40**
6	2.36	870	7718	77.18	22.82	**15-30**
7	0.600	814	8532	85.32	14.68	**8-22**
8	0.075	1317	9849	98.49	1.51	**0-5**
9	pan	151	10000	100.00	0.00	-

Remarks:

Prepared By: Pavithra

Tested By: Rachithanand

ASSISTANT EXECUTIVE ENGINEER, Vidyaranyapura Sub-Division, Bengaluru Mahanagara Palike

Technical Manager:

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Sahakarnagar, Bangalore-560092
098869 13195

Date: 10-03-2023

TEST REPORT OF GRADATION FOR WET MIX MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Sampling : Sample collected from the site and tested

Chainage/Location/ Land Mark: 3rd Cross GD layout

Test Date: 10-03-2023

BIS Code reference: IS 2386 (Part 1):1963 (RA 2016) Particle Size and Shape Cl.2

Layer: WMM

Wt of Sample (gm): 10000

Sl No	Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits Vide Table 400.13 as Per MORTH Specification
1	53	0	0	0.00	100	**100**
2	45	226	226	2.26	97.74	**95-100**
3	22.4	2702	2928	29.28	70.72	**60-80**
4	11.2	1919	4847	48.47	51.53	**40-60**
5	4.75	2138	6985	69.85	30.15	**25-40**
6	2.36	865	7850	78.50	21.50	**15-30**
7	0.600	508	8358	83.58	16.42	**8-22**
8	0.075	1444	9802	98.02	1.98	**0-5**
9	pan	198	10000	100.00	0.00	-

Remarks:

Prepared By:
Pavithra

Tested By:
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Bruhath Bengaluru Mahanagara Palike

Technical Manager:

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Sahakarnagar, Bangalore-560092
098869 13195

Date: 29-01-2023

TEST REPORT FOR DETERMINATION OF RATE OF SPREAD OF PRIME COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 29-01-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		Venketeshwara temple road,IECHS Layout	Venketeshwara temple road,IECHS Layout	Venketeshwara temple road,IECHS Layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of prime Coat (c)	Kg	1.302	1.300	1.303
Weight of Prime Coat (d=c-b)	Kg	0.177	0.175	0.178
Rate of spread of Prime coat	kg/Sq.m	0.708	0.701	0.711
Average	**kg/Sq.m**	**0.706**		
Specified Limit	**kg/Sq.m**	**0.70 Kg/sq.m for Prime coat**		

Prepared by
Pavithra

Tested by
Rachithanand

Technical Manager

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098869 13195

Date: 09-02-2023

TEST REPORT FOR DETERMINATION OF RATE OF SPREAD OF PRIME COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 9-02-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		5th Cross , Defence Layout	5th Cross , Defence Layout	5th Cross , Defence Layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of prime Coat (c)	Kg	1.301	1.300	1.303
Weight of Prime Coat (d=c-b)	Kg	0.176	0.175	0.178
Rate of spread of Prime coat	kg/Sq.m	0.703	0.700	0.711
Average	**kg/Sq.m**	**0.705**		
Specified Limit	**kg/Sq.m**	**0.70 Kg/sq.m for Prime coat**		

Prepared by
Pavithra

Tested by
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098869 13195

Date : 15-02-2023

TEST REPORT FOR DETERMINATION OF RATE OF SPREAD OF PRIME COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 15-02-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		16th Cross, HMT Layout	16th Cross, HMT Layout	16th Cross, HMT Layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of prime Coat (c)	Kg	1.304	1.300	1.301
Weight of Prime Coat (d=c-b)	Kg	0.179	0.175	0.176
Rate of spread of Prime coat	kg/Sq.m	0.716	0.701	0.704
Average	**kg/Sq.m**	**0.707**		
Specified Limit	**kg/Sq.m**	**0.70 Kg/sq.m for Prime coat**		

Prepared by
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Technical Manager:

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Date: 21-02-2023

TEST REPORT FOR DETERMINATION OF RATE OF SPREAD OF PRIME COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 21-02-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		8th main road,(narayana school to Vidyanaranyapura main road)		
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of prime Coat (c)	Kg	1.305	1.302	1.303
Weight of Prime Coat (d=c-b)	Kg	0.180	0.177	0.178
Rate of spread of Prime coat	kg/Sq.m	0.720	0.708	0.711
Average	**kg/Sq.m**	**0.713**		
Specified Limit	**kg/Sq.m**	**0.70 Kg/sq.m for Prime coat**		

Prepared by
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Tested by
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098869 13195

Date: 04-04-2023

TEST REPORT FOR DETERMINATION OF RATE OF SPREAD OF PRIME COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 04-4-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		3rd ,6th cross sapthageri layout	3rd ,6th cross sapthageri layout	3rd ,6th cross sapthageri layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of prime Coat (c)	Kg	1.303	1.306	1.301
Weight of Prime Coat (d=c-b)	Kg	0.178	0.181	0.176
Rate of spread of Prime coat	kg/Sq.m	0.712	0.724	0.704
Average	**kg/Sq.m**	**0.713**		
Specified Limit	**kg/Sq.m**	**0.70 Kg/sq.m for Prime coat**		

Prepared by
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Tested by
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Technical Manager:

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098869 13195

Date : 18-03-2023

TEST REPORT FOR DETERMINATION OF RATE OF SPREAD OF PRIME COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 18-03-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		Durgaparmeshwari temple road to Bus stand		
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of prime Coat (c)	Kg	1.305	1.300	1.303
Weight of Prime Coat (d=c-b)	Kg	0.180	0.175	0.178
Rate of spread of Prime coat	kg/Sq.m	0.720	0.700	0.712
Average	**kg/Sq.m**	**0.711**		
Specified Limit	**kg/Sq.m**	**0.70 Kg/sq.m for Prime coat**		

Prepared by
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Tested by
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Sahakarnagar, Bangalore-560092
098869 13195

Date : 07-03-2023

TEST REPORT FOR DETERMINATION OF RATE OF SPREAD OF PRIME COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 07-3-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		20TH Cross , NTI layout	20TH Cross , NTI layout	20TH Cross , NTI layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of prime Coat (c)	Kg	1.306	1.301	1.303
Weight of Prime Coat (d=c-b)	Kg	0.181	0.176	0.178
Rate of spread of Prime coat	kg/Sq.m	0.724	0.704	0.711
Average	**kg/Sq.m**	**0.713**		
Specified Limit	**kg/Sq.m**	**0.70 Kg/sq.m for Prime coat**		

Prepared by
Pavithra

Tested by
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ASSISTANT EXECUTIVE ENGINEER
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Bruhath Bengaluru Mahanagara Palike

Technical Manager:

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Sahakarnagar, Bangalore-560092
098869 13195

TRANSHEIGHT
PAVING FUTURE

Date 02-03-2023

TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF TACK COAT

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Division

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 2-03-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		12th cross ,MV Layout	12th cross ,MV Layout	12th cross ,MV Layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of Tack Coat (c)	Kg	1.178	1.181	1.179
Weight of Prime/Tack Coat (d=c-b)	Kg	0.053	0.056	0.054
Rate of spread of tack coat	kg/Sq.m	0.212	0.224	0.216
Average	**kg/Sq.m**	**0.217**		
Specified Limit	**kg/Sq.m**	**0.20 kg per sqm for Tack coat**		

Prepared by
Pavithra

Tested by
Rachitanand

Technical Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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TRANSHEIGHT CONSULTANTS PVT LTD
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Sahakarnagar, Bangalore-560092
098869 13195

Date : 4-03-2023

TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF TACK COAT

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Division

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 4-03-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		1st,2nd,3rd & 4rh Sonnapa layout	1st,2nd,3rd & 4rh Sonnapa layout	1st,2nd,3rd & 4rh Sonnapa layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of Tack Coat (c)	Kg	1.180	1.178	1.181
Weight of Prime/Tack Coat (d=c-b)	Kg	0.055	0.053	0.056
Rate of spread of tack coat	kg/Sq.m	0.220	0.212	0.224
Average	**kg/Sq.m**	**0.219**		
Specified Limit	**kg/Sq.m**	**0.20 kg per sqm for Tack coat**		

AE-199

Prepared by
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Tested by
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098869 13195

Date : 28-03-2023

TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF TACK COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 28-03-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		1st and 3rd cross Sommana garden layout	1st and 3rd cross Sommana garden layout	1st and 3rd cross Sommana garden layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of Tack Coat (c)	Kg	1.179	1.176	1.181
Weight of Prime/Tack Coat (d=c-b)	Kg	0.054	0.051	0.056
Rate of spread of tack coat	kg/Sq.m	0.216	0.204	0.224
Average	**kg/Sq.m**	**0.215**		
Specified Limit	**kg/Sq.m**	**0.20 kg per sqm for Tack coat**		

Prepared by
Pavithra

Tested by
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Bruhath Bengaluru Mahanagara Palike

Technical Manager

TRANSHEIGHT
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098869 13195

Date : 14-03-2023

TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF TACK COAT

Client: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP Bangalore-560092

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Kodigehalli Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 14-03-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		Parvathma layout	Parvathma layout	Parvathma layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of Tack Coat (c)	Kg	1.183	1.179	1.180
Weight of Prime/Tack Coat (d=c-b)	Kg	0.058	0.054	0.055
Rate of spread of tack coat	kg/Sq.m	0.232	0.216	0.220
Average	**kg/Sq.m**	**0.223**		
Specified Limit	**kg/Sq.m**	**0.20 kg per sqm for Tack coat**		

Prepared by
Pavithra

Tested by
Rachitanand

ASSISTANT EXECUTIVE ENGINEER
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Technical Manager

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098869 13195

Date : 14-04-2023

TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF TACK COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 14-4-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		Durgaparmeshwari temple road		
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of Tack Coat (c)	Kg	1.176	1.179	1.180
Weight of Prime/Tack Coat (d=c-b)	Kg	0.051	0.054	0.055
Rate of spread of tack coat	kg/Sq.m	0.206	0.214	0.219
Average	**kg/Sq.m**	**0.213**		
Specified Limit	**kg/Sq.m**	**0.20 kg per sqm for Tack coat**		

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Sahakarnagar, Bangalore-560092
098869 13195

Date : 13-04-2023

TEST REPORT OF DETERMINATION OF RATE OF SPREAD OF TACK COAT

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Test Date: 13-4-2023

Determination	Unit	Test No		
		1	2	3
Chainage/Location /Land Mark:		3rd main road 6th block Bel layout	3rd main road 6th block Bel layout	3rd main road 6th block Bel layout
Size of Plate (mxm)	mt	0.5*0.5	0.5*0.5	0.5*0.5
Area of Plate (a)	Sq.m	0.25	0.25	0.25
Initial Wt of empty Plate (b)	Kg	1.125	1.125	1.125
Final weight of plate after application of Tack Coat (c)	Kg	1.179	1.176	1.178
Weight of Prime/Tack Coat (d=c-b)	Kg	0.054	0.051	0.053
Rate of spread of tack coat	kg/Sq.m	0.216	0.204	0.212
Average	**kg/Sq.m**	**0.211**		
Specified Limit	**kg/Sq.m**	**0.20 kg per sqm for Tack coat**		

Prepared by
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Date 30-01-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Venketeshwara temple road,IECHS Layout

Test Date: 30-01-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.4	
3. Weight of Bitumen Extracted, gm	22.6	
4. Bitumen content in %	4.52	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.4** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	11.80	2.47	2.47	97.53	90 - 100
19	59.50	12.46	14.94	85.06	71-95
13.2	89.30	18.71	33.64	66.36	56-80
4.75	111.10	23.27	56.91	43.09	38-54
2.36	64.90	13.59	70.51	29.49	28-42
0.3	71.80	15.04	85.55	14.45	7-21
0.075	37.20	7.79	93.34	6.66	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

Note:

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Transheight Consultants Pvt. Ltd. Bangalore

Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

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Date 6/2/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 7th main road,IECHS Layout

Test Date: 6-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.18	
3. Weight of Bitumen Extracted, gm	22.82	
4. Bitumen content in %	4.56	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.18** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	15.70	3.29	3.29	96.71	90 - 100
19	79.70	16.70	19.99	80.01	71-95
13.2	59.00	12.36	32.36	67.64	56-80
4.75	118.10	24.75	57.11	42.89	38-54
2.36	67.20	14.08	71.19	28.81	28-42
0.3	67.00	14.04	85.23	14.77	7-21
0.075	36.60	7.67	92.90	7.10	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date 10/2/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th Cross , Defence Layout

Test Date: 10-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.1	
3. Weight of Bitumen Extracted, gm	22.9	
4. Bitumen content in %	4.58	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.1** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	11.80	2.47	2.47	97.53	90 - 100
19	64.80	13.58	16.06	83.94	71-95
13.2	52.00	10.90	26.95	73.05	56-80
4.75	109.70	22.99	49.95	50.05	38-54
2.36	54.90	11.51	61.45	38.55	28-42
0.3	90.70	19.01	80.47	19.53	7-21
0.075	64.50	13.52	93.98	6.02	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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098869 13195

Date 11/2/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th Cross , Defence Layout

Test Date: 11-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.22	
3. Weight of Bitumen Extracted, gm	22.78	
4. Bitumen content in %	4.56	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.22** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	14.80	3.10	3.10	96.90	90 - 100
19	45.90	9.62	12.72	87.28	71-95
13.2	59.70	12.51	25.23	74.77	56-80
4.75	117.80	24.68	49.91	50.09	38-54
2.36	43.30	9.07	58.99	41.01	28-42
0.3	135.00	28.29	87.28	12.72	7-21
0.075	27.90	5.85	93.12	6.88	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date 16-02-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 16th Cross, HMT Layout

Test Date: 16-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.44	
3. Weight of Bitumen Extracted, gm	22.56	
4. Bitumen content in %	4.51	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.44** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	14.80	3.10	3.10	96.90	90 - 100
19	23.70	4.96	8.06	91.94	71-95
13.2	98.40	20.61	28.67	71.33	56-80
4.75	110.70	23.19	51.86	48.14	38-54
2.36	51.60	10.81	62.67	37.33	28-42
0.3	82.30	17.24	79.91	20.09	7-21
0.075	63.40	13.28	93.18	6.82	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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TRANSHEIGHT
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Date 16-02-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 9TH Main road,NTI layout

Test Date: 16-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.26	
3. Weight of Bitumen Extracted, gm	22.74	
4. Bitumen content in %	4.55	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.26** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	15.40	3.23	3.23	96.77	90 - 100
19	48.20	10.10	13.33	86.67	71-95
13.2	58.30	12.22	25.54	74.46	56-80
4.75	109.60	22.96	48.51	51.49	38-54
2.36	58.40	12.24	60.74	39.26	28-42
0.3	89.50	18.75	79.50	20.50	7-21
0.075	66.50	13.93	93.43	6.57	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date 22-02-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 8th main road,(narayana school to Vidyanaranyapura main road)

Test Date: 22-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.36	
3. Weight of Bitumen Extracted, gm	22.64	
4. Bitumen content in %	4.53	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.36** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	14.40	3.02	3.02	96.98	90 - 100
19	53.10	11.12	14.14	85.86	71-95
13.2	61.80	12.95	27.09	72.91	56-80
4.75	108.00	22.62	49.71	50.29	38-54
2.36	67.90	14.22	63.93	36.07	28-42
0.3	81.60	17.09	81.03	18.97	7-21
0.075	66.40	13.91	94.94	5.06	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date 22-02-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th Cross Nti Layout

Test Date: 22-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.44	
3. Weight of Bitumen Extracted, gm	22.56	
4. Bitumen content in %	4.51	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.44** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	17.00	3.56	3.56	96.44	90 - 100
19	55.00	11.52	15.08	84.92	71-95
13.2	50.00	10.47	25.55	74.45	56-80
4.75	106.50	22.31	47.86	52.14	38-54
2.36	54.50	11.42	59.27	40.73	28-42
0.3	99.40	20.82	80.09	19.91	7-21
0.075	63.50	13.30	93.39	6.61	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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TRANSHEIGHT CONSULTANTS PVT LTD
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Sahakarnagar, Bangalore-560092
098869 13195

Date 1/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st cross and 3rd cross Somana garden layout

Test Date: 1-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.12	
3. Weight of Bitumen Extracted, gm	22.88	
4. Bitumen content in %	4.58	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.12** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	16.10	3.37	3.37	96.63	90 - 100
19	60.70	12.72	16.10	83.90	71-95
13.2	78.70	16.49	32.59	67.41	56-80
4.75	105.10	22.03	54.62	45.38	38-54
2.36	61.80	12.95	67.57	32.43	28-42
0.3	96.00	20.12	87.69	12.31	7-21
0.075	40.00	8.38	96.08	3.92	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

Note:

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Tested By:
Rachithanand

Technical Manager:

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098869 13195

Date 8/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 20TH Cross , NTI layout

Test Date: 8-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.16	
3. Weight of Bitumen Extracted, gm	22.84	
4. Bitumen content in %	4.57	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.16** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	17.90	3.75	3.75	96.25	90 - 100
19	72.70	15.24	18.99	81.01	71-95
13.2	71.30	14.94	33.93	66.07	56-80
4.75	115.10	24.12	58.05	41.95	38-54
2.36	62.70	13.14	71.19	28.81	28-42
0.3	68.10	14.27	85.46	14.54	7-21
0.075	38.70	8.11	93.57	6.43	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Technical Manager

Prepared By:
Pavithra

Tested By:
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098869 13195

Date 9-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 7th and 8th Cross , NTI layout

Test Date: 9-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477	
3. Weight of Bitumen Extracted, gm	23	
4. Bitumen content in %	4.60	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	14.60	3.06	3.06	96.94	90 - 100
19	84.20	17.65	20.71	79.29	71-95
13.2	53.10	11.13	31.84	68.16	56-80
4.75	108.20	22.68	54.53	45.47	38-54
2.36	60.10	12.60	67.13	32.87	28-42
0.3	77.50	16.25	83.38	16.62	7-21
0.075	42.20	8.85	92.22	7.78	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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9-03-23

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Date 9/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Sai baba temple road, NTI layout

Test Date: 9-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.34	
3. Weight of Bitumen Extracted, gm	22.66	
4. Bitumen content in %	4.53	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.34** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	13.70	2.87	2.87	97.13	90 - 100
19	76.50	16.03	18.90	81.10	71-95
13.2	57.40	12.02	30.92	69.08	56-80
4.75	114.80	24.05	54.97	45.03	38-54
2.36	50.70	10.62	65.59	34.41	28-42
0.3	86.80	18.18	83.78	16.22	7-21
0.075	40.90	8.57	92.35	7.65	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date 19-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Location /Land Mark: Durgaparmeshwari temple road to Bus stand
Test Date: 19-03-2023
Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.48	
3. Weight of Bitumen Extracted, gm	22.52	
4. Bitumen content in %	4.50	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.48** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	14.70	3.08	3.08	96.92	90 - 100
19	25.80	5.40	8.48	91.52	71-95
13.2	60.10	12.59	21.07	78.93	56-80
4.75	132.80	27.81	48.88	51.12	38-54
2.36	43.80	9.17	58.05	41.95	28-42
0.3	107.70	22.56	80.61	19.39	7-21
0.075	69.70	14.60	95.21	4.79	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Transheight Consultants Pvt. Ltd. Bangalore

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098869 13195

Date 5/4/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS)

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 3rd ,6th cross sapthageri layout

Test Date: 5-04-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.16	
3. Weight of Bitumen Extracted, gm	22.84	
4. Bitumen content in %	4.57	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.16** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	17.30	3.63	3.63	96.37	90 - 100
19	50.50	10.58	14.21	85.79	71-95
13.2	53.20	11.15	25.36	74.64	56-80
4.75	109.40	22.93	48.29	51.71	38-54
2.36	56.20	11.78	60.06	39.94	28-42
0.3	90.40	18.95	79.01	20.99	7-21
0.075	77.80	16.30	95.31	4.69	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date : 30/1/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Location /Land Mark: Venketeshwara temple road,IECHS Layout
Test Date: 30-01-2023
Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.36	
3. Weight of Bitumen Extracted, gm	22.64	
4. Bitumen content in %	4.53	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.36** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	12.20	2.56	2.56	97.44	90 - 100
19	24.80	5.20	7.75	92.25	71-95
13.2	70.60	14.79	22.54	77.46	56-80
4.75	124.20	26.02	48.56	51.44	38-54
2.36	57.90	12.13	60.69	39.31	28-42
0.3	99.30	20.80	81.49	18.51	7-21
0.075	60.20	12.61	94.10	5.90	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date : 6/2/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 7th main road,IECHS Layout

Test Date: 6-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.32	
3. Weight of Bitumen Extracted, gm	22.68	
4. Bitumen content in %	4.54	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.32** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	13.90	2.91	2.91	97.09	90 - 100
19	48.60	10.18	13.09	86.91	71-95
13.2	89.30	18.71	31.80	68.20	56-80
4.75	112.10	23.49	55.29	44.71	38-54
2.36	51.50	10.79	66.08	33.92	28-42
0.3	68.70	14.39	80.47	19.53	7-21
0.075	68.70	14.39	94.86	5.14	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date : 10/2/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th Cross , Defence Layout

Test Date: 10-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.48	
3. Weight of Bitumen Extracted, gm	22.52	
4. Bitumen content in %	4.50	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.48** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	10.50	2.20	2.20	97.80	90 - 100
19	42.20	8.84	11.04	88.96	71-95
13.2	58.80	12.31	23.35	76.65	56-80
4.75	115.80	24.25	47.60	52.40	38-54
2.36	61.70	12.92	60.53	39.47	28-42
0.3	92.10	19.29	79.81	20.19	7-21
0.075	67.10	14.05	93.87	6.13	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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8&3 AIE-09

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Date : 11/2/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th Cross , Defence Layout

Test Date: 11-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.26	
3. Weight of Bitumen Extracted, gm	22.74	
4. Bitumen content in %	4.55	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.26** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	16.10	3.37	3.37	96.63	90 - 100
19	62.10	13.01	16.39	83.61	71-95
13.2	73.90	15.48	31.87	68.13	56-80
4.75	115.90	24.28	56.15	43.85	38-54
2.36	52.50	11.00	67.15	32.85	28-42
0.3	80.50	16.87	84.02	15.98	7-21
0.075	47.50	9.95	93.97	6.03	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Q3 AB-09

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Date : 16/2/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 16th Cross, HMT Layout

Test Date: 16-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.18	
3. Weight of Bitumen Extracted, gm	22.82	
4. Bitumen content in %	4.56	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.18** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	17.00	3.56	3.56	96.44	90 - 100
19	57.40	12.03	15.59	84.41	71-95
13.2	54.10	11.34	26.93	73.07	56-80
4.75	116.90	24.50	51.43	48.57	38-54
2.36	64.80	13.58	65.01	34.99	28-42
0.3	91.40	19.15	84.16	15.84	7-21
0.075	44.40	9.30	93.47	6.53	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

Note:

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AB-09

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Transheight Consultants Pvt. Ltd. Bangalore

Prepared By: Pavithra

Tested By: Rachithanand

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098869 13195

Date : 16/2/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 9TH Main road,NTI layout

Test Date: 16-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.2	
3. Weight of Bitumen Extracted, gm	22.8	
4. Bitumen content in %	4.56	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.2** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	13.20	2.77	2.77	97.23	90 - 100
19	33.20	6.96	9.72	90.28	71-95
13.2	76.10	15.95	25.67	74.33	56-80
4.75	113.10	23.70	49.37	50.63	38-54
2.36	48.60	10.18	59.56	40.44	28-42
0.3	100.80	21.12	80.68	19.32	7-21
0.075	54.80	11.48	92.16	7.84	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Tested By: Rachithanand

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Date : 22/2/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 8th main road,(narayana school to Vidyanaranyapura main road)

Test Date: 22-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.08	
3. Weight of Bitumen Extracted, gm	22.92	
4. Bitumen content in %	4.58	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.08** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	13.20	2.77	2.77	97.23	90 - 100
19	32.60	6.83	9.60	90.40	71-95
13.2	75.70	15.87	25.47	74.53	56-80
4.75	119.40	25.03	50.49	49.51	38-54
2.36	46.10	9.66	60.16	39.84	28-42
0.3	96.00	20.12	80.28	19.72	7-21
0.075	65.60	13.75	94.03	5.97	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date : 22/2/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th Cross Nti Layout

Test Date: 22-02-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.4	
3. Weight of Bitumen Extracted, gm	22.6	
4. Bitumen content in %	4.52	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.4** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	16.30	3.41	3.41	96.59	90 - 100
19	77.90	16.32	19.73	80.27	71-95
13.2	69.20	14.50	34.23	65.77	56-80
4.75	116.50	24.40	58.63	41.37	38-54
2.36	58.40	12.23	70.86	29.14	28-42
0.3	85.80	17.97	88.84	11.16	7-21
0.075	38.50	8.06	96.90	3.10	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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098869 13195

Date : 01/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st cross and 3rd cross Somana garden layout

Test Date: 1-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.14	
3. Weight of Bitumen Extracted, gm	22.86	
4. Bitumen content in %	4.57	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.14** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	17.50	3.67	3.67	96.33	90 - 100
19	68.10	14.27	17.94	82.06	71-95
13.2	53.70	11.25	29.19	70.81	56-80
4.75	118.40	24.81	54.01	45.99	38-54
2.36	59.30	12.43	66.44	33.56	28-42
0.3	71.30	14.94	81.38	18.62	7-21
0.075	57.00	11.95	93.33	6.67	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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DM-09

Prepared By: Pavithra

Tested By: Rachithanand

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098869 13195

Date : 08/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 20TH Cross , NTI layout

Test Date: 8-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.18	
3. Weight of Bitumen Extracted, gm	22.82	
4. Bitumen content in %	4.56	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.18** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	15.30	3.21	3.21	96.79	90 - 100
19	56.70	11.88	15.09	84.91	71-95
13.2	82.30	17.25	32.34	67.66	56-80
4.75	115.40	24.18	56.52	43.48	38-54
2.36	65.50	13.73	70.25	29.75	28-42
0.3	92.70	19.43	89.67	10.33	7-21
0.075	31.10	6.52	96.19	3.81	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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DB-09

Prepared By:
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098869 13195

Date : 09/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 7th and 8th Cross , NTI layout

Test Date: 9-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.44	
3. Weight of Bitumen Extracted, gm	22.56	
4. Bitumen content in %	4.51	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.44** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	16.90	3.54	3.54	96.46	90 - 100
19	48.40	10.14	13.68	86.32	71-95
13.2	75.90	15.90	29.57	70.43	56-80
4.75	110.70	23.19	52.76	47.24	38-54
2.36	65.10	13.64	66.40	33.60	28-42
0.3	81.70	17.11	83.51	16.49	7-21
0.075	49.30	10.33	93.83	6.17	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date : 13/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Sai baba temple road, NTI layout

Test Date: 9-03-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.12	
3. Weight of Bitumen Extracted, gm	22.88	
4. Bitumen content in %	4.58	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.12** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	13.60	2.85	2.85	97.15	90 - 100
19	35.80	7.50	10.35	89.65	71-95
13.2	62.80	13.16	23.52	76.48	56-80
4.75	115.30	24.17	47.68	52.32	38-54
2.36	102.10	21.40	69.08	30.92	28-42
0.3	92.10	19.30	88.38	11.62	7-21
0.075	26.40	5.53	93.92	6.08	2-8

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Date : 19-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Location /Land Mark: Durgaparmeshwari temple road to Bus stand
Test Date: 19-03-2023
Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477	
3. Weight of Bitumen Extracted, gm	23	
4. Bitumen content in %	4.60	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 477 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	11.50	2.41	2.41	97.59	90 - 100
19	43.40	9.10	11.51	88.49	71-95
13.2	64.40	13.50	25.01	74.99	56-80
4.75	110.20	23.10	48.11	51.89	38-54
2.36	52.40	10.99	59.10	40.90	28-42
0.3	104.80	21.97	81.07	18.93	7-21
0.075	68.60	14.38	95.45	4.55	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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23.03.22-09

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Date : 5-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 3rd ,6th cross sapthageri layout

Test Date: 5-04-2023

Type of Mix: Dense Bituminous Macadam

BITUMEN CONTENT DETERMINATION

Description	Sample	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for DBM Grade II (50-75mm) Bitumen Content 4.5 min VG-30
2. Weight of Mixture after Test, gm	477.26	
3. Weight of Bitumen Extracted, gm	22.74	
4. Bitumen content in %	4.55	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **477.26** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500-10
37.5	0	0.00	0.00	100.00	100
26.5	13.80	2.89	2.89	97.11	90 - 100
19	84.20	17.64	20.53	79.47	71-95
13.2	77.70	16.28	36.81	63.19	56-80
4.75	110.20	23.09	59.90	40.10	38-54
2.36	54.80	11.48	71.39	28.61	28-42
0.3	94.30	19.76	91.15	8.85	7-21
0.075	26.90	5.64	96.78	3.22	2-8

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MORTH Specification/Project Requirement.

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Date 1-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Venketeshwara temple road,IECHS Layout
Test Date: 31-01-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.98	
3. Weight of Binder Extracted, gm	27.02	
4. Binder content in %	5.40	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.98** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	20.00	4.23	4.23	95.77	90 - 100
9.5	76.70	16.22	20.44	79.56	70-88
4.75	76.30	16.13	36.58	63.42	53-71
2.36	78.30	16.55	53.13	46.87	42-58
1.18	44.10	9.32	62.46	37.54	34-48
0.6	47.90	10.13	72.58	27.42	26-38
0.3	38.50	8.14	80.72	19.28	18-28
0.15	28.90	6.11	86.83	13.17	12-20
0.075	36.70	7.76	94.59	5.41	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:
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Prepared By: Pavithra

Tested By: Rachithanand

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Technical Manager:

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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date 1-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 6th A Main Road,IECHS Layout
Test Date: 31-01-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.52	
3. Weight of Binder Extracted, gm	27.48	
4. Binder content in %	5.50	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **472.52** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	14.40	3.05	3.05	96.95	90 - 100
9.5	68.50	14.50	17.54	82.46	70-88
4.75	65.80	13.93	31.47	68.53	53-71
2.36	79.90	16.91	48.38	51.62	42-58
1.18	25.00	5.29	53.67	46.33	34-48
0.6	55.00	11.64	65.31	34.69	26-38
0.3	59.50	12.59	77.90	22.10	18-28
0.15	28.80	6.09	84.00	16.00	12-20
0.075	37.60	7.96	91.95	8.05	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 6-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th cross, Defence layout
Test Date: 6-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.74	
3. Weight of Binder Extracted, gm	27.26	
4. Binder content in %	5.45	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.74 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	16.60	3.51	3.51	96.49	90 - 100
9.5	73.40	15.53	19.04	80.96	70-88
4.75	65.20	13.79	32.83	67.17	53-71
2.36	68.10	14.41	47.24	52.76	42-58
1.18	25.80	5.46	52.69	47.31	34-48
0.6	45.90	9.71	62.40	37.60	26-38
0.3	60.50	12.80	75.20	24.80	18-28
0.15	39.40	8.33	83.53	16.47	12-20
0.075	35.00	7.40	90.94	9.06	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 7-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 16th Cross, HMT Layout
Test Date: 7-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.54	
3. Weight of Binder Extracted, gm	27.46	
4. Binder content in %	5.49	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.54 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	12.80	2.71	2.71	97.29	90 - 100
9.5	78.40	16.59	19.30	80.70	70-88
4.75	61.40	12.99	32.29	67.71	53-71
2.36	64.50	13.65	45.94	54.06	42-58
1.18	33.50	7.09	53.03	46.97	34-48
0.6	50.30	10.64	63.68	36.32	26-38
0.3	48.70	10.31	73.98	26.02	18-28
0.15	42.10	8.91	82.89	17.11	12-20
0.075	36.50	7.72	90.62	9.38	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 10-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th,7th and 8th cross NTI Layout

Test Date: 10-03-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.5	
3. Weight of Binder Extracted, gm	27.5	
4. Binder content in %	5.50	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 472.5 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	30.50	6.46	6.46	93.54	90 - 100
9.5	86.70	18.35	24.80	75.20	70-88
4.75	94.00	19.89	44.70	55.30	53-71
2.36	55.70	11.79	56.49	43.51	42-58
1.18	37.70	7.98	64.47	35.53	34-48
0.6	39.30	8.32	72.78	27.22	26-38
0.3	37.90	8.02	80.80	19.20	18-28
0.15	33.20	7.03	87.83	12.17	12-20
0.075	29.30	6.20	94.03	5.97	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 11-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 20th cross,NTI Layout
Test Date: 11-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.6	
3. Weight of Binder Extracted, gm	27.4	
4. Binder content in %	5.48	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.6 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	30.50	6.45	6.45	93.55	90 - 100
9.5	56.90	12.04	18.49	81.51	70-88
4.75	94.30	19.95	38.45	61.55	53-71
2.36	69.50	14.71	53.15	46.85	42-58
1.18	20.30	4.30	57.45	42.55	34-48
0.6	60.80	12.87	70.31	29.69	26-38
0.3	49.30	10.43	80.74	19.26	18-28
0.15	23.40	4.95	85.70	14.30	12-20
0.075	31.80	6.73	92.42	7.58	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 11-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 8th A cross,NTI Layout
Test Date: 11-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.58	
3. Weight of Binder Extracted, gm	27.42	
4. Binder content in %	5.48	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.58 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	30.10	6.37	6.37	93.63	90 - 100
9.5	83.40	17.65	24.02	75.98	70-88
4.75	92.00	19.47	43.48	56.52	53-71
2.36	61.40	12.99	56.48	43.52	42-58
1.18	39.40	8.34	64.81	35.19	34-48
0.6	33.60	7.11	71.92	28.08	26-38
0.3	30.40	6.43	78.36	21.64	18-28
0.15	32.50	6.88	85.23	14.77	12-20
0.075	33.10	7.00	92.24	7.76	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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098869 13195

Date 25-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Durgaparmeshwari temple road to Bus stand
Test Date: 25-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.58	
3. Weight of Binder Extracted, gm	27.42	
4. Binder content in %	5.48	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.58** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	26.50	5.61	5.61	94.39	90 - 100
9.5	65.50	13.86	19.47	80.53	70-88
4.75	55.50	11.74	31.21	68.79	53-71
2.36	86.00	18.20	49.41	50.59	42-58
1.18	27.00	5.71	55.12	44.88	34-48
0.6	51.90	10.98	66.11	33.89	26-38
0.3	48.80	10.33	76.43	23.57	18-28
0.15	29.50	6.24	82.67	17.33	12-20
0.075	35.80	7.58	90.25	9.75	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Technical Manager:

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098869 13195

Date 29-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 8th main road, Sai baba temple Nti layout
Test Date: 27-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.8	
3. Weight of Binder Extracted, gm	27.2	
4. Binder content in %	5.44	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.8 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	25.70	5.44	5.44	94.56	90 - 100
9.5	60.40	12.77	18.21	81.79	70-88
4.75	90.50	19.14	37.35	62.65	53-71
2.36	83.20	17.60	54.95	45.05	42-58
1.18	27.40	5.80	60.74	39.26	34-48
0.6	40.90	8.65	69.40	30.60	26-38
0.3	52.10	11.02	80.41	19.59	18-28
0.15	31.70	6.70	87.12	12.88	12-20
0.075	33.50	7.09	94.20	5.80	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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098869 13195

Date 29-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 7th cross GD Layout

Test Date: 28-03-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.64	
3. Weight of Binder Extracted, gm	27.36	
4. Binder content in %	5.47	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **472.64** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	17.10	3.62	3.62	96.38	90 - 100
9.5	71.80	15.19	18.81	81.19	70-88
4.75	95.90	20.29	39.10	60.90	53-71
2.36	77.90	16.48	55.58	44.42	42-58
1.18	39.70	8.40	63.98	36.02	34-48
0.6	36.30	7.68	71.66	28.34	26-38
0.3	38.50	8.15	79.81	20.19	18-28
0.15	28.90	6.11	85.92	14.08	12-20
0.075	39.40	8.34	94.26	5.74	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Sahakarnagar, Bangalore-560092
098869 13195

Date 29-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st and 3rd cross Sommana garden layout
Test Date: 29-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.82	
3. Weight of Binder Extracted, gm	27.18	
4. Binder content in %	5.44	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.82 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	24.30	5.14	5.14	94.86	90 - 100
9.5	83.80	17.72	22.86	77.14	70-88
4.75	68.20	14.42	37.29	62.71	53-71
2.36	71.80	15.19	52.47	47.53	42-58
1.18	41.00	8.67	61.14	38.86	34-48
0.6	45.10	9.54	70.68	29.32	26-38
0.3	34.70	7.34	78.02	21.98	18-28
0.15	37.30	7.89	85.91	14.09	12-20
0.075	34.50	7.30	93.21	6.79	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:
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Prepared By: Pavithra
Tested By: Rachithanand
Technical Manager:

Transheight Consultants Pvt. Ltd. Bangalore

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date 01-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 7th cross and 7th A main road IECHS layout

Test Date: 30-03-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	473	
3. Weight of Binder Extracted, gm	27	
4. Binder content in %	5.40	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 473 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	27.70	5.86	5.86	94.14	90 - 100
9.5	87.10	18.41	24.27	75.73	70-88
4.75	66.60	14.08	38.35	61.65	53-71
2.36	62.10	13.13	51.48	48.52	42-58
1.18	50.60	10.70	62.18	37.82	34-48
0.6	48.50	10.25	72.43	27.57	26-38
0.3	33.80	7.15	79.58	20.42	18-28
0.15	30.40	6.43	86.00	14.00	12-20
0.075	34.80	7.36	93.36	6.64	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 01-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st Main Road Sommana layout
Test Date: 1-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.88	
3. Weight of Binder Extracted, gm	27.12	
4. Binder content in %	5.42	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.88 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	28.00	5.92	5.92	94.08	90 - 100
9.5	69.60	14.72	20.64	79.36	70-88
4.75	84.70	17.91	38.55	61.45	53-71
2.36	90.00	19.03	57.58	42.42	42-58
1.18	27.70	5.86	63.44	36.56	34-48
0.6	30.50	6.45	69.89	30.11	26-38
0.3	42.70	9.03	78.92	21.08	18-28
0.15	29.30	6.20	85.12	14.88	12-20
0.075	30.30	6.41	91.52	8.48	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 01-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 8th main road to narayana school
Test Date: 1-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.96	
3. Weight of Binder Extracted, gm	27.04	
4. Binder content in %	5.41	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.96 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	16.60	3.51	3.51	96.49	90 - 100
9.5	88.20	18.65	22.16	77.84	70-88
4.75	90.70	19.18	41.34	58.66	53-71
2.36	68.40	14.46	55.80	44.20	42-58
1.18	32.50	6.87	62.67	37.33	34-48
0.6	48.90	10.34	73.01	26.99	26-38
0.3	39.60	8.37	81.38	18.62	18-28
0.15	22.50	4.76	86.14	13.86	12-20
0.075	35.30	7.46	93.60	6.40	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 06-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 3rd and 6th cross Sapthageri layout
Test Date: 6-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.78	
3. Weight of Binder Extracted, gm	27.22	
4. Binder content in %	5.44	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.78 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	30.20	6.39	6.39	93.61	90 - 100
9.5	67.50	14.28	20.67	79.33	70-88
4.75	80.20	16.96	37.63	62.37	53-71
2.36	84.50	17.87	55.50	44.50	42-58
1.18	33.40	7.06	62.57	37.43	34-48
0.6	40.60	8.59	71.15	28.85	26-38
0.3	44.50	9.41	80.57	19.43	18-28
0.15	33.90	7.17	87.74	12.26	12-20
0.075	36.50	7.72	95.46	4.54	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 14-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Location /Land Mark: 3rd main road 6th block Bel layout
Test Date: 14-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.54	
3. Weight of Binder Extracted, gm	27.46	
4. Binder content in %	5.49	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.54** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	12.70	2.69	2.69	97.31	90 - 100
9.5	85.20	18.03	20.72	79.28	70-88
4.75	78.20	16.55	37.27	62.73	53-71
2.36	69.20	14.64	51.91	48.09	42-58
1.18	29.30	6.20	58.11	41.89	34-48
0.6	55.30	11.70	69.81	30.19	26-38
0.3	55.60	11.77	81.58	18.42	18-28
0.15	19.40	4.11	85.69	14.31	12-20
0.075	26.50	5.61	91.29	8.71	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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098869 13195

Date 15-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Location /Land Mark: Durgaparmeshwari temple road
Test Date: 15-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.52	
3. Weight of Binder Extracted, gm	27.48	
4. Binder content in %	5.50	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.52** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	30.50	6.45	6.45	93.55	90 - 100
9.5	63.20	13.38	19.83	80.17	70-88
4.75	91.50	19.36	39.19	60.81	53-71
2.36	78.20	16.55	55.74	44.26	42-58
1.18	38.80	8.21	63.95	36.05	34-48
0.6	43.30	9.16	73.12	26.88	26-38
0.3	28.30	5.99	79.11	20.89	18-28
0.15	31.50	6.67	85.77	14.23	12-20
0.075	32.40	6.86	92.63	7.37	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Sahakarnagar, Bangalore-560092
098869 13195

Date 15-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 3rd cross, NTI layout
Test Date: 15-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.86	
3. Weight of Binder Extracted, gm	27.14	
4. Binder content in %	5.43	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.86 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	13.00	2.75	2.75	97.25	90 - 100
9.5	73.20	15.48	18.23	81.77	70-88
4.75	54.20	11.46	29.69	70.31	53-71
2.36	77.20	16.33	46.02	53.98	42-58
1.18	60.00	12.69	58.71	41.29	34-48
0.6	38.30	8.10	66.81	33.19	26-38
0.3	54.90	11.61	78.42	21.58	18-28
0.15	26.70	5.65	84.06	15.94	12-20
0.075	31.20	6.60	90.66	9.34	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 27-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Location /Land Mark: Main road from Narayana School to Vidyaranyapura main road
Test Date: 27-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.94	
3. Weight of Binder Extracted, gm	27.06	
4. Binder content in %	5.41	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.94 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	13.40	2.83	2.83	97.17	90 - 100
9.5	68.60	14.51	17.34	82.66	70-88
4.75	81.20	17.17	34.51	65.49	53-71
2.36	91.90	19.43	53.94	46.06	42-58
1.18	50.00	10.57	64.51	35.49	34-48
0.6	39.20	8.29	72.80	27.20	26-38
0.3	41.50	8.77	81.57	18.43	18-28
0.15	8.80	1.86	83.44	16.56	12-20
0.075	40.30	8.52	91.96	8.04	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Technical Manager:

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098869 13195

Date 27-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Main road from Narayana School to Vidyaranyapura main road

Test Date: 27-04-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.94	
3. Weight of Binder Extracted, gm	27.06	
4. Binder content in %	5.41	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 472.94 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	13.40	2.83	2.83	97.17	90 - 100
9.5	68.60	14.51	17.34	82.66	70-88
4.75	81.20	17.17	34.51	65.49	53-71
2.36	91.90	19.43	53.94	46.06	42-58
1.18	50.00	10.57	64.51	35.49	34-48
0.6	39.20	8.29	72.80	27.20	26-38
0.3	41.50	8.77	81.57	18.43	18-28
0.15	8.80	1.86	83.44	16.56	12-20
0.075	40.30	8.52	91.96	8.04	4-10

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Bruhath Bengaluru Mahanagara Palike

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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

TRANSHEIGHT
PAVING FUTURE

Date 27-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Main road from Narayana School to Vidyaranyapura main road

Test Date: 27-04-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.56	
3. Weight of Binder Extracted, gm	27.44	
4. Binder content in %	5.49	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **472.56** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	22.30	4.72	4.72	95.28	90 - 100
9.5	60.40	12.78	17.50	82.50	70-88
4.75	71.50	15.13	32.63	67.37	53-71
2.36	79.60	16.84	49.48	50.52	42-58
1.18	27.10	5.73	55.21	44.79	34-48
0.6	60.90	12.89	68.10	31.90	26-38
0.3	56.70	12.00	80.10	19.90	18-28
0.15	29.30	6.20	86.30	13.70	12-20
0.075	37.00	7.83	94.13	5.87	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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2. This report without prior written approval should not be reproduced or published in full or part.

Transheight Consultants Pvt. Ltd. Bangalore

Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date 27-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 3rd cross, NTI layout

Test Date: 15-04-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.84	
3. Weight of Binder Extracted, gm	27.16	
4. Binder content in %	5.43	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 472.84 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	16.10	3.40	3.40	96.60	90 - 100
9.5	77.60	16.41	19.82	80.18	70-88
4.75	58.80	12.44	32.25	67.75	53-71
2.36	85.40	18.06	50.31	49.69	42-58
1.18	42.80	9.05	59.36	40.64	34-48
0.6	61.90	13.09	72.46	27.54	26-38
0.3	51.40	10.87	83.33	16.67	18-28
0.15	12.10	2.56	85.89	14.11	12-20
0.075	33.40	7.06	92.95	7.05	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Transheight Consultants Pvt. Ltd. Bangalore

Prepared By: Pavithra

Tested By: Rachithanand

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Technical Manager:

AB-09

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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date 15-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore
Chainage/Location /Land Mark: Durgaparmeshwari temple road
Test Date: 15-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.56	
3. Weight of Binder Extracted, gm	27.44	
4. Binder content in %	5.49	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.56** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	24.80	5.25	5.25	94.75	90 - 100
9.5	62.10	13.14	18.39	81.61	70-88
4.75	65.00	13.75	32.14	67.86	53-71
2.36	73.80	15.62	47.76	52.24	42-58
1.18	30.80	6.52	54.28	45.72	34-48
0.6	57.90	12.25	66.53	33.47	26-38
0.3	48.80	10.33	76.86	23.14	18-28
0.15	37.80	8.00	84.86	15.14	12-20
0.075	35.70	7.55	92.41	7.59	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

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Vidyaranayapura Sub-Division
Bruhath Bangaluru Mahanagara Palike

17-04-23

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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date 14-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 3rd main road 6th block Bel layout

Test Date: 14-04-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.88	
3. Weight of Binder Extracted, gm	27.12	
4. Binder content in %	5.42	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 472.88 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	25.80	5.46	5.46	94.54	90 - 100
9.5	72.20	15.27	20.72	79.28	70-88
4.75	59.80	12.65	33.37	66.63	53-71
2.36	71.80	15.18	48.55	51.45	42-58
1.18	36.70	7.76	56.31	43.69	34-48
0.6	54.50	11.53	67.84	32.16	26-38
0.3	54.00	11.42	79.26	20.74	18-28
0.15	28.30	5.98	85.24	14.76	12-20
0.075	32.30	6.83	92.07	7.93	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Transheight Consultants Pvt. Ltd. Bangalore

Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date 6/4/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 3rd and 6th cross Sapthageri layout

Test Date: 6-04-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.8	
3. Weight of Binder Extracted, gm	27.2	
4. Binder content in %	5.44	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 472.8 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	31.50	6.66	6.66	93.34	90 - 100
9.5	85.40	18.06	24.73	75.27	70-88
4.75	64.00	13.54	38.26	61.74	53-71
2.36	71.00	15.02	53.28	46.72	42-58
1.18	44.00	9.31	62.58	37.42	34-48
0.6	46.00	9.73	72.31	27.69	26-38
0.3	34.30	7.25	79.57	20.43	18-28
0.15	23.30	4.93	84.50	15.50	12-20
0.075	34.60	7.32	91.81	8.19	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bangaluru Mahanagara Palike

TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date 31-01-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 6th A Main Road,IECHS Layout
Test Date: 31-01-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.98	
3. Weight of Binder Extracted, gm	27.02	
4. Binder content in %	5.40	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.98** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	25.10	5.31	5.31	94.69	90 - 100
9.5	87.00	18.39	23.70	76.30	70-88
4.75	51.20	10.82	34.53	65.47	53-71
2.36	71.90	15.20	49.73	50.27	42-58
1.18	40.00	8.46	58.18	41.82	34-48
0.6	40.50	8.56	66.75	33.25	26-38
0.3	55.30	11.69	78.44	21.56	18-28
0.15	32.40	6.85	85.29	14.71	12-20
0.075	30.70	6.49	91.78	8.22	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Transheight Consultants Pvt. Ltd. Bangalore

Prepared By: Pavithra

Tested By: Rachithanand

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Technical Manager:

TRANSHEIGHT
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TRANSHEIGHT CONSULTANTS PVT LTD
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Sahakarnagar, Bangalore-560092
098869 13195

Date 31-01-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Venketeshwara temple road,IECHS Layout
Test Date: 31-01-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.56	
3. Weight of Binder Extracted, gm	27.44	
4. Binder content in %	5.49	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.56 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	23.20	4.91	4.91	95.09	90 - 100
9.5	68.00	14.39	19.30	80.70	70-88
4.75	61.50	13.01	32.31	67.69	53-71
2.36	77.20	16.34	48.65	51.35	42-58
1.18	42.00	8.89	57.54	42.46	34-48
0.6	56.50	11.96	69.49	30.51	26-38
0.3	34.70	7.34	76.84	23.16	18-28
0.15	30.50	6.45	83.29	16.71	12-20
0.075	39.80	8.42	91.71	8.29	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Tested By: Rachithanand
Technical Manager:

ASSISTANT EXECUTIVE ENGINEER Vidyaranayapura Sub-Division Bruhath Bengaluru Mahanagara Palike

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TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date 1/4/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 8th main road to narayana school
Test Date: 1-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.88	
3. Weight of Binder Extracted, gm	27.12	
4. Binder content in %	5.42	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.88 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	26.00	5.50	5.50	94.50	90 - 100
9.5	71.70	15.16	20.66	79.34	70-88
4.75	67.70	14.32	34.98	65.02	53-71
2.36	90.60	19.16	54.14	45.86	42-58
1.18	50.20	10.62	64.75	35.25	34-48
0.6	29.30	6.20	70.95	29.05	26-38
0.3	33.30	7.04	77.99	22.01	18-28
0.15	27.00	5.71	83.70	16.30	12-20
0.075	39.00	8.25	91.95	8.05	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Tested By: Rachithanand

Technical Manager:

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

TRANSHEIGHT
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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main
Sahakarnagar, Bangalore-560092
098869 13195

Date 1/4/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st Main Road Sommana layout
Test Date: 1-04-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.64	
3. Weight of Binder Extracted, gm	27.36	
4. Binder content in %	5.47	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.64** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	20.60	4.36	4.36	95.64	90 - 100
9.5	57.80	12.23	16.59	83.41	70-88
4.75	82.80	17.52	34.11	65.89	53-71
2.36	62.20	13.16	47.27	52.73	42-58
1.18	33.50	7.09	54.35	45.65	34-48
0.6	57.10	12.08	66.44	33.56	26-38
0.3	60.70	12.84	79.28	20.72	18-28
0.15	32.20	6.81	86.09	13.91	12-20
0.075	36.00	7.62	93.71	6.29	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Transheight Consultants Pvt. Ltd. Bangalore

Prepared By: Pavithra

Tested By: Rachithanand

Technical Manager:

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

AB-09

TRANSHEIGHT
PAVING FUTURE

TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date 30-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 7th cross and 7th A main road IECHS layout

Test Date: 30-03-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.74	
3. Weight of Binder Extracted, gm	27.26	
4. Binder content in %	5.45	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 472.74 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	16.20	3.43	3.43	96.57	90 - 100
9.5	74.30	15.72	19.14	80.86	70-88
4.75	62.60	13.24	32.39	67.61	53-71
2.36	75.60	15.99	48.38	51.62	42-58
1.18	23.40	4.95	53.33	46.67	34-48
0.6	45.60	9.65	62.97	37.03	26-38
0.3	64.90	13.73	76.70	23.30	18-28
0.15	32.40	6.85	83.56	16.44	12-20
0.075	45.30	9.58	93.14	6.86	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

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Prepared By: Pavithra

Tested By: Rachithanand

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Bruhath Bengaluru Mahanagara Palike

Technical Manager:

TRANSHEIGHT
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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A' Block, 3rdCross, 5th Main,
Sahakarnagar, Bangalore-560092
098869 13195

Date 29-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 1st and 3rd cross Sommana garden layout
Test Date: 29-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.58	
3. Weight of Binder Extracted, gm	27.42	
4. Binder content in %	5.48	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.58 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	23.60	4.99	4.99	95.01	90 - 100
9.5	67.00	14.18	19.17	80.83	70-88
4.75	73.10	15.47	34.64	65.36	53-71
2.36	74.00	15.66	50.30	49.70	42-58
1.18	47.30	10.01	60.31	39.69	34-48
0.6	50.40	10.66	70.97	29.03	26-38
0.3	39.40	8.34	79.31	20.69	18-28
0.15	35.70	7.55	86.86	13.14	12-20
0.075	34.20	7.24	94.10	5.90	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Transheight Consultants Pvt. Ltd. Bangalore

Prepared By:
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098869 13195

Date 6/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th cross, Defence layout
Test Date: 6-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.5	
3. Weight of Binder Extracted, gm	27.5	
4. Binder content in %	5.50	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.5** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	15.10	3.20	3.20	96.80	90 - 100
9.5	56.90	12.04	15.24	84.76	70-88
4.75	89.40	18.92	34.16	65.84	53-71
2.36	87.70	18.56	52.72	47.28	42-58
1.18	51.50	10.90	63.62	36.38	34-48
0.6	38.10	8.06	71.68	28.32	26-38
0.3	43.40	9.19	80.87	19.13	18-28
0.15	28.30	5.99	86.86	13.14	12-20
0.075	34.50	7.30	94.16	5.84	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 7/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 16th Cross, HMT Layout
Test Date: 7-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.76	
3. Weight of Binder Extracted, gm	27.24	
4. Binder content in %	5.45	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.76 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	13.90	2.94	2.94	97.06	90 - 100
9.5	84.60	17.89	20.84	79.16	70-88
4.75	87.40	18.49	39.32	60.68	53-71
2.36	76.20	16.12	55.44	44.56	42-58
1.18	36.50	7.72	63.16	36.84	34-48
0.6	43.10	9.12	72.28	27.72	26-38
0.3	38.20	8.08	80.36	19.64	18-28
0.15	28.50	6.03	86.39	13.61	12-20
0.075	30.40	6.43	92.82	7.18	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 10/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 5th,7th and 8th cross NTI Layout

Test Date: 10-03-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.66	
3. Weight of Binder Extracted, gm	27.34	
4. Binder content in %	5.47	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: **472.66** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	29.50	6.24	6.24	93.76	90 - 100
9.5	81.60	17.26	23.51	76.49	70-88
4.75	99.70	21.09	44.60	55.40	53-71
2.36	54.20	11.47	56.07	43.93	42-58
1.18	39.30	8.31	64.38	35.62	34-48
0.6	38.30	8.10	72.48	27.52	26-38
0.3	32.20	6.81	79.30	20.70	18-28
0.15	25.60	5.42	84.71	15.29	12-20
0.075	30.60	6.47	91.19	8.81	4-10

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Date 11/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 20th cross,NTI Layout
Test Date: 11-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.52	
3. Weight of Binder Extracted, gm	27.48	
4. Binder content in %	5.50	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.52 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	16.70	3.53	3.53	96.47	90 - 100
9.5	71.00	15.03	18.56	81.44	70-88
4.75	53.10	11.24	29.80	70.20	53-71
2.36	60.20	12.74	42.54	57.46	42-58
1.18	37.80	8.00	50.54	49.46	34-48
0.6	61.00	12.91	63.45	36.55	26-38
0.3	64.50	13.65	77.10	22.90	18-28
0.15	30.90	6.54	83.64	16.36	12-20
0.075	32.90	6.96	90.60	9.40	4-10

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Sahakarnagar, Bangalore-560092
098869 13195

Date 11/3/2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 8th A cross,NTI Layout
Test Date: 11-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.98	
3. Weight of Binder Extracted, gm	27.02	
4. Binder content in %	5.40	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.98** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	29.20	6.17	6.17	93.83	90 - 100
9.5	74.80	15.81	21.99	78.01	70-88
4.75	63.60	13.45	35.43	64.57	53-71
2.36	74.10	15.67	51.10	48.90	42-58
1.18	20.70	4.38	55.48	44.52	34-48
0.6	52.90	11.18	66.66	33.34	26-38
0.3	58.60	12.39	79.05	20.95	18-28
0.15	37.00	7.82	86.87	13.13	12-20
0.075	36.80	7.78	94.66	5.34	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 25-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 9th Main road ,NTI Layout
Test Date: 25-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.84	
3. Weight of Binder Extracted, gm	27.16	
4. Binder content in %	5.43	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: 472.84 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	16.80	3.55	3.55	96.45	90 - 100
9.5	56.60	11.97	15.52	84.48	70-88
4.75	92.30	19.52	35.04	64.96	53-71
2.36	85.50	18.08	53.13	46.87	42-58
1.18	35.60	7.53	60.65	39.35	34-48
0.6	61.50	13.01	73.66	26.34	26-38
0.3	29.30	6.20	79.86	20.14	18-28
0.15	20.30	4.29	84.15	15.85	12-20
0.075	37.70	7.97	92.12	7.88	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 27-04-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: Durgaparmeshwari temple road to Bus stand
Test Date: 25-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.64	
3. Weight of Binder Extracted, gm	27.36	
4. Binder content in %	5.47	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.64** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	27.50	5.82	5.82	94.18	90 - 100
9.5	78.00	16.50	22.32	77.68	70-88
4.75	74.20	15.70	38.02	61.98	53-71
2.36	87.80	18.58	56.60	43.40	42-58
1.18	39.30	8.31	64.91	35.09	34-48
0.6	36.60	7.74	72.66	27.34	26-38
0.3	37.30	7.89	80.55	19.45	18-28
0.15	27.90	5.90	86.45	13.55	12-20
0.075	39.70	8.40	94.85	5.15	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Date 27-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097
Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison
Contractor: Sri. Chidananda Murthy R.
Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043
PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 8th main road, Sai baba temple Nti layout
Test Date: 27-03-2023
Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.96	
3. Weight of Binder Extracted, gm	27.04	
4. Binder content in %	5.41	

GRADATION AFTER EXTRACTION
TOTAL WEIGHT OF SAMPLE: **472.96** gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	18.00	3.81	3.81	96.19	90 - 100
9.5	70.00	14.80	18.61	81.39	70-88
4.75	76.70	16.22	34.82	65.18	53-71
2.36	69.30	14.65	49.48	50.52	42-58
1.18	53.90	11.40	60.87	39.13	34-48
0.6	48.30	10.21	71.08	28.92	26-38
0.3	47.10	9.96	81.04	18.96	18-28
0.15	23.30	4.93	85.97	14.03	12-20
0.075	34.20	7.23	93.20	6.80	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

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Tested By: Rachithanand
Technical Manager:

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Date 28-03-2023

TEST REPORTS FOR BITUMEN CONTENT & GRADATION DETERMINATION OF BITUMINOUS CONCRETE

Client: Assistant Executive Engineer, Vidyaranayapura Sub Division, BBMP Bangalore-560097

Name of Work: PACKAGE NO.4 (CONSISTS OF 3 WORKS) Vidyaranayapura Sub Divison

Contractor: Sri. Chidananda Murthy R.

Contractor Address: No.16, 2nd Cross, Vinayaka Layout, Horamavu, Bengaluru - 560043

PMC: Transheight Consultants Pvt. Ltd., Sahakarnagar, Bangalore

Chainage/Location /Land Mark: 7th cross GD Layout

Test Date: 28-03-2023

Type of Mix: Bituminous Concrete

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Requirements
1. Weight of Mixture before Test, gm	500	As per MORTH Specification for Grade II Vide Table 500.17 Binder Content 5.4% min
2. Weight of Mixture after Test, gm	472.78	
3. Weight of Binder Extracted, gm	27.22	
4. Binder content in %	5.44	

GRADATION AFTER EXTRACTION

TOTAL WEIGHT OF SAMPLE: 472.78 gms

SIEVE SIZE in mm	Weight Retained in gm	% Retained	Cumulative % Retained	% Passing	Requirements as per MORTH Specification Table 500.17
19	0	0.00	0.00	100.00	100
13.2	30.50	6.45	6.45	93.55	90 - 100
9.5	79.50	16.82	23.27	76.73	70-88
4.75	70.80	14.98	38.24	61.76	53-71
2.36	76.90	16.27	54.51	45.49	42-58
1.18	24.50	5.18	59.69	40.31	34-48
0.6	45.30	9.58	69.27	30.73	26-38
0.3	53.40	11.29	80.57	19.43	18-28
0.15	25.70	5.44	86.00	14.00	12-20
0.075	30.30	6.41	92.41	7.59	4-10

Remarks: The tested sample is found to be satisfactory as it meets the requirements of the MoRT&H Specification

Note:

1. Any correction in the report will make this report invalid.
2. This report without prior written approval should not be reproduced or published in full or part.

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